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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/066,283	01/31/2002	Sergey Frolov	2100/3	2048
27774	7590 10/06/2003		EXAMINER	
MAYER, FORTKORT & WILLIAMS, PC			HELLNER, MARK	
	AVENUE WEST		ART UNIT	PAPER NUMBER
2ND FLOOF WESTFIELI	NI 07090		3663	
WESTI IEE	5, 113 07050		3003	

DATE MAILED: 10/06/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/066,283	FROLOV ET AL.	1			
Office Action Summary	Examiner	Art Unit				
C	Mark Hellner	3663				
Th MAILING DATE of this communication app Period for Reply	ears on the cover shee	t with the correspondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl- If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may within the statutory minimum o will apply and will expire SIX (6) It. cause the application to become	y a reply be timely filed f thirty (30) days will be considered timely MONTHS from the mailing date of this or a ABANDONED (35 U.S.C. § 133).	<i>f.</i> ommunication.			
1) Responsive to communication(s) filed on	<u> </u>					
2a) This action is FINAL . 2b) ⊠ Th	is action is non-final.					
3) Since this application is in condition for allows closed in accordance with the practice under	ance except for formal <i>Ex parte Quayle</i> , 1935	matters, prosecution as to th C.D. 11, 453 O.G. 213.	e merits is			
Disposition of Claims						
4) ⊠ Claim(s) <u>1-26</u> is/are pending in the application						
4a) Of the above claim(s) is/are withdra	wn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-26</u> is/are rejected.						
7) Claim(s) is/are objected to.			•			
8) Claim(s) are subject to restriction and/o	r election requirement.					
9) The specification is objected to by the Examine	ır					
10) The drawing(s) filed on is/are: a) acce		ov the Examiner.				
Applicant may not request that any objection to th						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Ex	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.	C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:	•		•			
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a	1)).	Stage			
14) ☐ Acknowledgment is made of a claim for domest	ic priority under 35 U.S	.C. § 119(e) (to a provisiona	l application).			
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domest 						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5 	5) 🔲 Notic	iew Summary (PTO-413) Paper No e of Informal Patent Application (PT :				
S. Patent and Trademark Office						

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DETAILED ACTION

Drawings

The drawings are objected to because figures 1-6 are hand sketches. Formal drafts of figures 1-6 are required. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 6-9, 14-17, 19-22 and 24 are rejected under 35 U.S.C. 102(e) as being anticipated by Bendett.

Bendett discloses an optical amplifier that comprises: a substrate (3001); an active waveguide (3030) formed on the substrate form amplifying a 1550 nm signal traveling therethrough, the active waveguide including an input port (3010); a plurality of coupling elements (3061 and 3062) formed on the substrate and adapted to couple pumping light at 980 nm to the active waveguide. This structure directly teaches claims 1-3, 8, 9, 14, 19 and 24.

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The 3dB loss recited by claims 6, 15 and 20-22 is a property of the waveguide disclosed by Bendett.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4, 5, 7, 10-13, 16-18, 23, 25 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bendett.

Silica glass (claims 4 and 5) was a well known optical material at the time of the present application and, as such, would have been obvious because the Bendett device requires the use of an optical glass substrate.

Bi-directional at 980 nm and 1440 nm (claims 10-13, 23, 25 and 26) would have been obvious because erbium doped materials (column 8, lines 55-640 were known to actively absorb at 980 nm and 1440nm.

The fact that the Bendett device requires pumping light suggests the use of a pumping source, thus producing claims 7, 16 and 17.

Any inquiry concerning this communication should be directed to Mark Hellner at telephone number 703 306 4155.

Mark Hellner

September 25, 2003

MARK HELLNER
PRIMARY EXAM

Mark Hellin